

## DNA & Protein Synthesis Review Worksheet

1. What does DNA stand for?
2. What is DNA's primary function?
3. What is the function of proteins?
4. What are the repeating subunits called that make up DNA?
5. Name the 3 parts of a DNA nucleotide.
6. Sketch and label a DNA nucleotide.
7. Name the 4 nitrogen bases on DNA.
8. What is the difference between a purine & a pyrimidine?
9. Name 2 purines.
10. Name 2 pyrimidines.
11. Who was responsible for determining the structure of the DNA molecule and in what year was this done?
12. The model of DNA is known as a \_\_\_\_\_ because it is composed of 2 \_\_\_\_\_ chains wrapped around each other.
13. What makes up the sides of the DNA molecule?
14. What makes up the "steps" of a DNA molecule?
15. How did Rosalind Franklin contribute to determining the structure of DNA?
16. What type of bonds hold the DNA bases together? Are they strong or weak bonds?
17. What makes up the "backbone" of the DNA molecule?
18. On DNA, a \_\_\_\_\_ base will always pair with a \_\_\_\_\_ base.
19. Name the complementary base pairs on DNA.
20. How many hydrogen bonds link cytosine & guanine? Adenine & thymine?
21. How does the nucleotide sequence in one chain of DNA compare with the other chain of DNA?